surjection or epimorphism?

Source: http://sci.tech−archive.net/Archive/sci.math/2007−01/msg00627.html

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- *Date*: Thu, 4 Jan 2007 19:36:22 +0100

Suppose G is a group and G_(i+1), G_i are two subgroups such that G_(i+1) is normal in G_i. Let f:G−>H be a surjection between the groups G and H.
If f(x_(i+1)) in G(x_(i+1)) and f(x_i) in G_i then
f(x_i).f(x_(i+1)).f(x_i)^(−1) = f(x_i.x_(i+1).x_i^(−1)) is in f(G_i),
because G_(i+1) is normal in G_i.

Is this statement true as it is written (that is, even if f is not a homomorphism)?
TIA

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