

Punctuation

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How would you punctuate this?

$\forall \epsilon > 0 \exists \delta > 0 P(x, \epsilon, \delta)$

"For all epsilon greater than zero, there exists a delta greater than zero such that proposition."

Would the proper punctuation be the insertion of colons:

$\forall \epsilon > 0 : \exists \delta > 0 : P(x, \epsilon, \delta)$

Would it be grouping the quantifiers:

$(\forall \epsilon > 0)(\exists \delta > 0)P(x, \epsilon, \delta)$

Is there a recommended/preferred approach?

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