Inference at $*$ 1 3 1
 of proof for Lemma pos_mul_arg_bounds:

1. $a : \mathbb{Z}$
2. $b : \mathbb{Z}$
3. $(a * b) > 0$
4. $a > 0$

$\vdash b > 0$

 by ((ReplaceWithEqv (TryC (HigherC IntSimpC)) $(a * b) > (a * 0)$ 3)
 CollapseTHENA (
  (Auto_aux (first_nat 1:n) ((first_nat 2:n),(first_nat 3:n)) (first_tok :t) inil_term)))·

  1:

   3. $(a * b) > (a * 0)$
   4. $a > 0$
   $\vdash b > 0$

  .

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http://www.nuprl.org/FDLcontent/p0_942988_/p121_74180_{pos_mul_arg_bounds}1_3_1.html