```
eval_factorization_split_pluck  THM

⊢  ∀a,c,b:ℤ, f:({a..b⁻}→ℤ).
|  a≤c ⇒ c<b ⇒ Π↑{a..b⁻}(f) = Π↑{a..c⁻}(f)·c↑f(c)·Π↑{c+1..b⁻}(f)
| by Def of Π↑{<int>..<int>⁻}(<exponents>)
|
1. a : ℤ
2. c : ℤ
3. b : ℤ
4. f : {a..b⁻}→ℤ
5. a≤c
6. c<b
⊢  (Π i:{a..b⁻}. i↑f(i))
   =
   (Π i:{a..c⁻}. i↑f(i))·c↑f(c)·(Π i:{c+1..b⁻}. i↑f(i))
  by Rewrite by
     Thm*  ∀a,c,b:ℤ, e:({a..b⁻}→ℤ).
           a≤c
           ⇒
           c<b
           ⇒
           (Π i:{a..b⁻}. e(i))
           =
           (Π i:{a..c⁻}. e(i))·e(c)·(Π i:{c+1..b⁻}. e(i))
     {mul_via_intseg_split_pluck}
END
```